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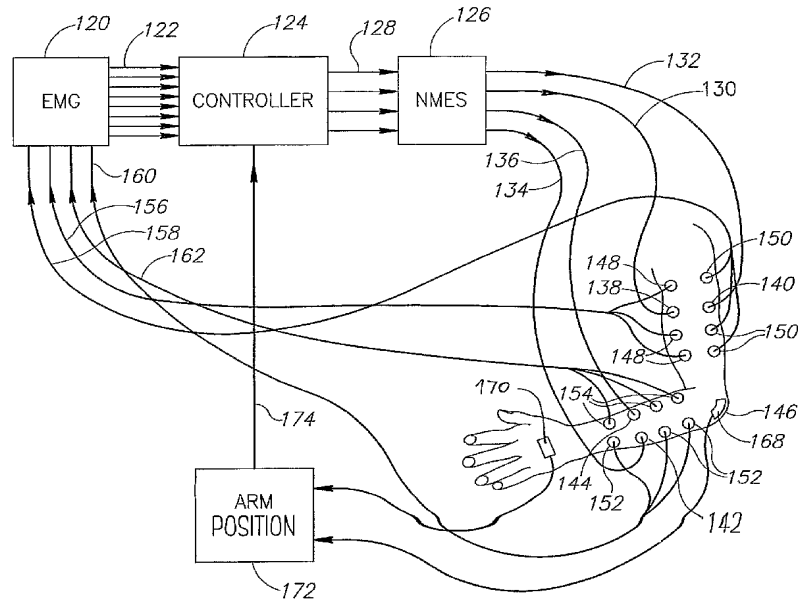
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(54) Title: NEUROMUSCULAR STIMULATION



(57) Abstract: Apparatus for rehabilitating a patient who has a paretic body part, the apparatus comprising: a) at least one electromyography (EMG) sensor adapted to being applied to a voluntary muscle of a healthy body part of the same type as the paretic body part, which at least one sensor produces at least one EMG signal; b) a neuromuscular electrical stimulation (NMES) device adapted for stimulating at least one voluntary muscle of the paretic body part; and c) a controller which controls the NMES device, making the amplitude of stimulation of the paretic body part at least partly dependent on the EMG signal from the healthy body part.



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